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## TEXAS OIL & GAS CORP. 1800 LINCOLN CENTER BUILDING DENVER. COLORADO 80264 TELEPHONE (303) 861-4246

March 18, 1980

Ms. Bonnie Melendez Utah Division of Oil, Gas & Mining 1588 West, North Temple Salt Lake City, Utah 84116

Re: Application for Permit to Drill
TXO Arco Federal "G" #1
Section 19-T16S-R25E
Grand County, Utah

Dear Ms. Melendez:

Please find enclosed an APD, 10 point plan, BOP Schematic, and location plat for the above referenced well.

If you should have any questions, please contact me. Thank you.

Very truly yours,

TEXAS OIL & GAS CORP.

Scott McGlochlin Safety & Environmental

Administrator

SM/vb Enclosures SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

## UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOLO	GICAL SURVE	Y			U-29643
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ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	7351' GR	·	20 Mg		April 1, 1980
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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	9 5/8"	36# K-55		250'		nt to surface
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6 1/4"	4 1/2"	11.6# N-80	) New	7100' "	Ceme	nt 200' into Mancos
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						OIL, GAS & MINING
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ANDOVES						
CONDITIONS OF APPROX	AL IF ANY	т	ITLE			DATE

### T 16 S, R 25 E, S.L.B.& M.

N 89056 F 77. 22 TX.O. - ARCO FED. G # / 877 Elev. Ungraded Ground - 7351 L01 2 Lot 3 Lot 4 77. 52 N89°55'E

X = Section Corners Located

#### PROJECT

#### TEXAS OIL & GAS

Well location, T.X.O. - ARCO FED. G #1, located as shown in the NE I/4 NW I/4 Section 19, T16S, R25E, S.L.B.& M. Grand County, Utah.

#### NOTE:

Basis of Bearings is from Solar Observations.



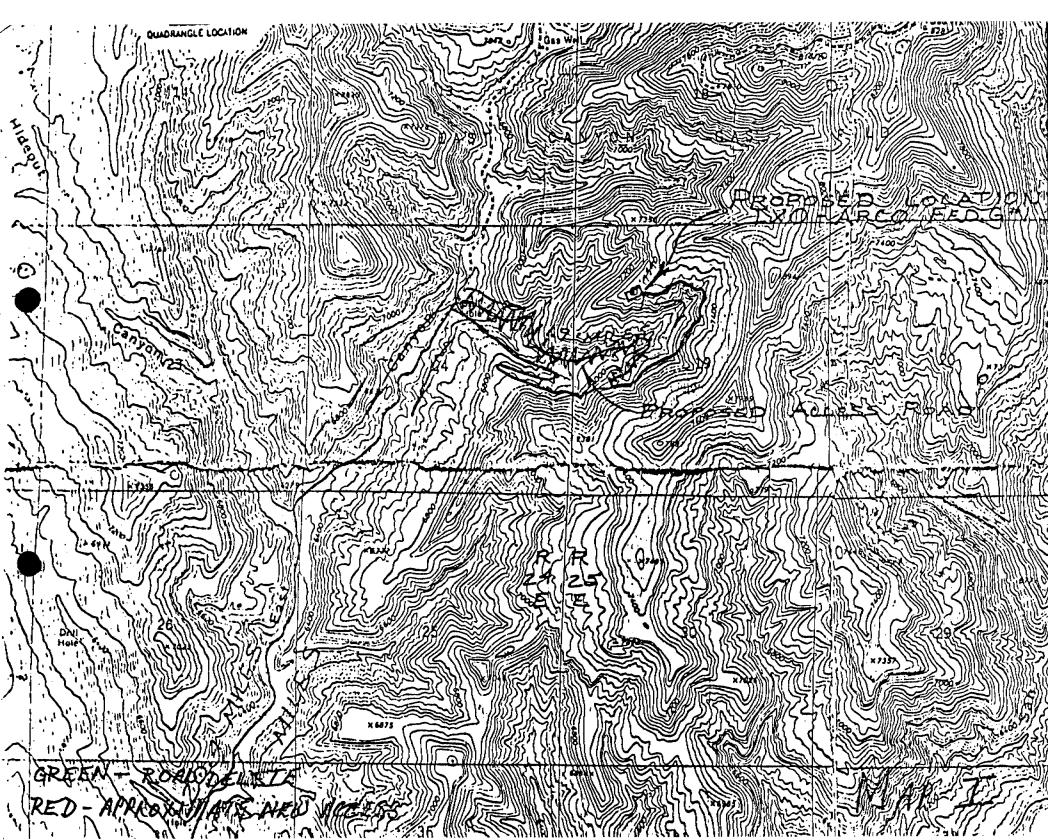
#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM F.E.O. NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR REGISTRATION Nº 3154

UINTAH ENGINEERING & LAND SURVEYING
PO. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000 '	•	DATE 2/7/80
PARTY	M.S. K.H.	S.B.	REFERENCES GLO Plot
WEATHER	Cold		FILE TEXAS OIL & GAS



nn ov.	DISTRICT CENTO	GIST, ME, SALT LAK	F CITY UTAH	W. S.	Cenn.
FROM: :				•	
ro :		EER, O&G, SALT LAK	E CITY, UTAH	TEACE NO. 11-206/3:	
SUBJECT:	APD MINERAL EVA	ALUATION REPORT		LEASE NO. U-29643	
OPERATOR:	Texas Oil &	Gas Corp.		WELL NO. TXO ARCO F	ederal "G"
LOCATION	<u> </u>	w k sec. 19, T.	<u>16 s</u> , R. <u>25</u>	E., SIM	•
,	Grand Co.	County, Utah	<u>.</u>		•
	,				
		projected tops ap	pear reasonable	e. Tops predicted a	re as
fo	llows:	Surface- Wasatch		•	
		1000- Mesaverd			
		2725- Castlega	te	, .	
		2935- Mancos	•		•
		6410- Dakota			
		6550- Buckhorn	i sandstone i (Brushy Basin)	,	
•		6950- Salt Was		,	
		0750 Bail Was			
2. Fresh	Water: Usable water to 1500':	ater may be encoun ±	tered in sands	in the Wasatch and I	Mesa Verde.
•					
	•	•			•
3. Leasa	ble Minerals:Coa be	l beds may occur i thin and discontin	n the Mesaverde uous.	e. These beds are 1:	ikely to
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4. Addit	ional Logs Neede	d: APD program sho	uld be run thro	ough the Mesaverde.	
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5. Poten	ti <b>al</b> Geologi <b>c</b> Ha	zards: None antic	ipated		
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		s: Within San Arr alt Lake City, Uta		736.	
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Signature:

Lease styps.

- 140-3 - 1969)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

## EQUAL OPPORTUNITY IN EMPLOYMENT CERTIFICATION OF NONSEGREGATED FACILITIES

Bid, offer or contract number or other identification:

U 29643

By the submission of this bid or offer and/or by entering into this contract, the bidder, offeror, lessee, subcontractor, or applicant certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means, but is not limited to, any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

## NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A Certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

In accordance with 41 CFR 60, as amended May 19, 1967, and Executive Order No. 11246 of September 24, 1965, as amended, this certification is applicable to all bids, offers, contracts and subcontracts as well as agreements with applicants who are themselves performing federally assisted contracts, which may exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity clause of the Order.

#### U 29643

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### SURFACE DISTURBANCE STIPULATIONS

Area Oil and Gas Supervisor or District Engineer (Address, include zip code)

See below

Management Agency (name)

Address (include zip code)

See reverse side.

See reverse side.

- 1. Notwithstanding any provision of this lease to the contrary, any drilling, construction, or other operation on the leased lands that will disturb the surface thereof or otherwise affect the environment, hereinafter called "surface disturbing operation," conducted by lessee shall be subject, as set forth in this stipulation, to prior approval of such operation by the Area Oil and Gas Supervisor in consultation with appropriate surface management agency and to such reasonable conditions, not inconsistent with the purposes for which this lease is issued, as the Supervisor may require to protect the surface of the leased lands and the environment.
- 2. Prior to entry upon the land or the disturbance of the surface thereof for drilling or other purposes, lessee shall submit for approval two (2) copies of a map and explanation of the nature of the anticipated activity and surface disturbance to the District Engineer or Area Oil and Gas Supervisor, as appropriate, and will also furnish the appropriate surface management agency named above, with a copy of such map and explanation.

An environmental analysis will be made by the Geological Survey in consultation with the appropriate surface management agency for the purpose of assuring proper protection of the surface, the natural resources, the environment, existing improvements, and for assuring timely reclamation of disturbed lands.

3. Upon completion of said environmental analysis, the District Engineer or Area Oil and Gas Supervisor, as appropriate, shall notify lessee of the conditions, if any, to which the proposed surface disturbing operations will be subject.

Said conditions may relate to any of the following:

- (a) Location of drilling or other exploratory or developmental operations or the manner in which they are to be conducted;
- (b) Types of vehicles that may be used and areas in which they may be used; and
- (c) Manner or location in which improvements such as roads, buildings, pipelines, or other improvements are to be constructed.

For all counties in Utah except San Juan County:

Area Oil and Gas Supervisor, Geological Survey, P. O. Box 2859, Casper, Wyoming 82601

For San Juan County:

Area Oil and Gas Supervisor, Geological Survey, P. O. Box 1857, Form 310 9-5 (August 1973) Roswell, New Mexico 88201

#### Surface Disturbance Stipulations Restricted Oil and Gas Lease Areas

Serial No.

- 1. All leases in restricted areas will be subject to the stipulations below and any additional stipulations specified by the authorized officer. When the authorized officer must approve an action or provide specifications it will be in writing unless otherwise specified in the stipulations.
- 2. The lessee shall ensure that full compliance with the stipulations is made by all persons acting in his behalf, including designated operators, and by all his employees, agents, contractors, subcontractors and employees of contractors or subcontractors. Copies of the stipulations attached to the lease and approved drilling permit will be available at exploration and operating sites and will be made known to all on-the-ground construction, exploration and operating personnel.
- 3. All survey monuments, witness corners, reference monuments and bearing trees must be protected against destruction, obliteration or damage. Any damaged or obliterated markers must be reestablished, at the lessee's expense, in accordance with accepted BLM survey practices as set forth in the Manual of Surveying Instructions. A complete record of the monumentation and the methods used in reestablishment will be furnished to the Chief, Branch of Cadastral Survey, at the appropriate State Director's Office.
- 4. The lease area will be available for any other public use, unless restricted in writing by the authorized officer.
- 5. Existing roads and trails will be used whenever possible. Road and trail widths will be kept to the minimum necessary and all locations and specifications will be approved in writing by the authorized officer. Scalping of top soil and removal of vegetation will not be allowed unless approved by the authorized officer. Roads to any well or other regularly maintained or inspected improvement will be upgraded as directed by the authorized officer. Such upgrading may include ditching, draining, culverts, gravelling or capping of the road bed.
- 6. The lessee will comply with existing county, state and federal laws pertaining to the protecting and preservation of wild horses, wild burros, raptors, wildlife, water quality, public health and public safety; and any applicable county, state and federal laws and regulations concerning the use of poisoncus substances, including insecticides, herbicides, fungicides, rodenticides and other similar substances. Prior to the use of such substances the lessee will obtain from the authorized officer approval of a written plan for such use. The plan shall state the type and quantity of material to be used, the animal or plant to be controlled, the method of application and such other information as the authorized officer may require. All use of such substances shall be in accordance with the approved plan. If the use of a chemical is prohibited by the Secretary of the Interior, it shall not be used. If use of a chemical is limited by the Secretary of the Interior, it shall be used only in accordance with that limitation.
- 7. Burning is permissible only by prior written consent of the authorized officer and in compliance with state and federal air quality standards and laws. The lessee will be responsible for prevention, control and suppression of all wildfires that are caused by burning in connection with this lease. The lessee will be billed by the surface management agency for fire suppression and fire rehabilitation cost resulting from uncontrolled burning of material. The lessee will do everything reasonable, both independently and/or upon request of the authorized officer, to prevent and suppress fires on or near lands to be occupied under the lease by taking initial attack action including making available such construction equipment and maintenance forces that are available. All vegetative and other material cut, uprooted or otherwise accumulated will be disposed of as specified by the authorized officer.
- 8. All access routes and areas of use will be kept clean. All garbage and foreign debris will be removed to an authorized dump site at least weekly. Sanitary facilities for all solid and liquid waste disposal will meet all state, federal and local codes and regulations.
- 9. All operations will be conducted to keep any change in the character of the land to an absolute minimum. Pollution, channeling or any erosion or degradation of lands, water quality, streams, lakes, ponds, waterholes, seeps, or marshes, or damage to any fish, wildlife, or domestic livestock resource will not be allowed. The burning off of sump pits to eliminate waste oil will not be allowed. Drainage systems will not be blocked. Vegetation will not be disturbed within 300 feet or within the flood plain of any water course, except at designated stream crossings. State water quality standards will be maintained. All disturbance to live streams and improvements, including but not limited to, fences, roads, watering facilities, culverts, bridges, trails, cattle guards, water development and control structures will be kept to an absolute minimum and will be repaired to at least their former state by the lessee. Functional use of improvements will be maintained at all times. When it is necessary to pass through a fence, the fence will be braced on both sides of the passageway prior to cutting. Four-inch treated timbers or larger will be used for bracing. A gate acceptable to the authorized officer will be installed. Where a permanent road is to be constructed or maintained, cattle guards of an approved design will be placed at all fence crossings with a gate at the side.
- 10. All operations will be conducted to protect aesthetic and scenic values. Site selection will be carefully considered to reduce adverse visual impacts. In some areas a qualified

landscape architect will be required by the authorized officer. All alterations in vegetative cover will be designed to achieve the same effect as natural-occuring openings within the characteristic landscape. Necessary modifications of existing land forms will reflect the surrounding land forms and enhance the natural landscape. Where alternatives are available, the alternative involving the least damage to scenery and other resources will be selected as determined by the authorized officer. Permanent structures and facilities will be designed to be architecturally compatible with the surrounding landscape. Construction material and color will harmonize and enhance the

11. Prior to entry upon the land or disturbance of the surface thereof, the authorized officer may require a complete inventory of all archaeological, paleontological and historic values. survey will be completed by a qualified archaeologist approved by the authorized officer. The results of this survey will be provided to the authorized officer. The authorized officer will then have the sites inspected by qualified personnel to determine their significance, and appropriate action to follow, i.e. salvage, relocation, etc. The authorized officer may require the lessee to relocate the proposed facilities in order to avoid destruction of antiquity values or to delay operations until salvage operations are completed. All costs of the survey and salvage of artifacts will be borne by the lessee. All objects of antiquity salvaged remain the property of the U.S. Government

#### **Operations**

- 12. Oil, petroleum products and similar materials will be stored in durable containers and located in areas which do not drain into any draws or water courses. Quantities of more than 500 gallons will be stored in an area surrounded by impermeable containment dikes of sufficient capacities to contain the aggregate capacity of all containers. Hazardous areas will be posted, fenced or otherwise protected to minimize hazards to humans, livestock and wildlife.
- 13. Pipeline and flowline routes will be closed to vehicular travel except when allowed by the authorized officer.
- 14. Activities employing wheeled or tracked vehicles will be conducted to minimize surface damage.
- 15. Disposal systems for solid and liquid wastes will meet all state, federal and local codes and regulations, and will be selected, designed and constructed to avoid landslides, control wind and water erosion, and establish conditions conducive to vegetative growth.

#### Surface Protection and Reclamation

- 16. Erosion will be prevented on producing well sites as well as abandoned dry holes. Topsoils will be removed, stockpiled and used in final backfilling and grading. When directed by the authorized officer, a mulch will be applied to seeded areas for the purpose of conserving moisture, preventing surface compaction or crusting, reducing runoff and erosion, controlling weeds and aiding the establishment of plant cover. Mulching material will be native grass hay, tame grass hay, small grain straw or strawy manure. Preference depends upon site and mulch availability. Mulch will be applied evenly at the rate of two to three tons per acre. Mulch will be anchored using a disk. A rotary hoe may be used if the soil is not compacted.
- 17. Backfilling, final grading, revegetation and restoration of all disturbed areas, including removal of support facilities and other structures, will be completed within six months after completion or termination of the operation unless otherwise authorized by the authorized officer. After development, the surface management agency, the Geological Survey and the lessee will meet once a year and determine which roads can be eliminated. The selected roads will be reshaped, reseeded, physically closed by barricades and protected from erosion as required by the authorized officer.
- 18. When the authorized officer determines it will be desirable to use an excavation for the permanent impoundment of water or for other uses, reasonable reshaping or excavation will be performed by the lessee. Excavations will be graded to establish safe access to water for persons,

Evidence of Authority of Attorney in Fact is filed in 0.142200 and such authority is still in effect.

ATLANTIC RICHFIELD COMPANY

C. E. CARDWELL, JR.

ATTORNEY-IN-FACT

#### Oil and Gas Lease - Surface Disturbance Stipulations Surface Management Agencies

- ( ) Cedar City District Office, Bureau of Land Management, 154 North Main, P. O. Box 729, Cedar City, Utah 84720 -- Telephone: 801-586-9443
- ( ) Fillmore District Office, Bureau of Land Management, 10 East 5th North, P. O. Box 778, Fillmore, Utah 84631 -- Telephone: 801-743-6811
- ( ) Kanab District Office, Bureau of Land Management, 320 North First East, P. O. Box 459, Kanab, Utah 84741 -- Telephone: 801-644-2672
- Monticello District Office, Bureau of Land Management, 284 South 1st West, P. O. Box 1327, Monticello, Utah 84535 -- Telephone: 801-587-2247
- Price District Office, Bureau of Land Management, 900 North 7th East,
   P. O. Box AB, Price, Utah 84501 -- Telephone: 801-637-1371
- ( ) Richfield District Office, Bureau of Land Management, 850 North Main, P. O. Box 392, Richfield, Utah 84701 -- Telephone: 801-896-2237
- ( ) Salt Lake District Office, Eureau of Land Management, 1750 South Redwood Road, Room 214, Salt Lake City, Utah 84101 -- Telephone: 801-524-5348
- ( ) Vernal District Office, Bureau of Land Management, 91 West Main Street, P. O. Box F, Vernal, Utah 84078 -- Telephone: 801-789-1362
- ( ) Forest Supervisor, Ashley National Forest, 437 East Main, Vernal, Utah 84078
- ( ) Forest Supervisor, Dixie National Forest, 500 South Main Street, Cedar City, Utah 84720
- ( ) Forest-Supervisor, Fishlake National Forest, 170 North Main, Richfield, Utah 84701
- ( ) Forest Supervisor, Uinta National Forest, 88 West 100 North, P. O. Box 1428, Provo, Utah 84601
- ( ) Forest Supervisor, Manti-LaSal National Forest, 350 East Main, Price, Utah 84501
- ( ) Forest Supervisor, Wasatch National Forest, 4438 Federal Building, 125 South State Street, Salt Lake City, Utah 84111
- ( ) Regional Director, Burcau of Reclamation, P. O. Box 11568, Salt Lake City, Utah 84111
- ( ) Regional Director, Bureau of Reclamation, Boulder City, Nevada 89005
- ( ) Superintendent, Uintah & Ouray Agency, Bureau of Indian Affairs, Fort Duchesne, Utah 84026
- ( ) Navajo Area Office, Rureau of Indian Affairs, P. O. Box 128, Window Rock, Arizona 86515

EA No. 282-80

United States Department of the Interior Geological Survey . 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

#### USUAL ENVIRONMENTAL ASSESSMENT

Date March 24, 1980

Operator Texas Oil & Gas Corp.	Well No. ARCO Fed'l "G" #1
Location 1304' FNL 1199' FWL	Section 19 Township 16S Range 25E
County <u>Grand</u> State	Utah Field/Unit San Arroyo
Lease No. U-29643	Permit No.
	Prepared by: Glenn M. Doyle  Environmental Scientist Grand Junction, Colorado
Joint Field Inspection Date:	March 20, 1980
Field Inspection Participants, Titl	es, and Organizations:
Glenn Doyle	U. S. Geological Survey
Elmer Duncan	Bureau of Land Management
Dallas Galley	Dirt Contractor
Scott McGlochlin	Operator
Charles Curlee	Operator
	. ***
•	

Related Environmental Documents:

Book Mountain Planning Unit Resource Analysis, Bureau of Land Management, Utah.

Admin Compet 2,

Pad 150 × 225

Pad 20 × 175

#### Proposed Action:

1. Location State: Utah County: Grand

Section 19, T16S, R25E, SLM

2. Surface Ownership: Location: Public Access Road: Public

Status of Reclamation Agreements: Not applicable.

3. Dates:

APD filed:

2/19/80

APD Technically Complete:

3/7/80

APD Administratively Complete:

4. Project Time Frame:

Starting Date: April 1, 1980

Duration of drilling activities:

10 days

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

- 5. Related actions of other federal or state agencies and Indian tribes:
  None known.
- 6. Nearby pending actions which may affect or be affected by the proposed action:

None known.

7. Status of variance requests:

None known.

The following elements of the proposed action would/could result in environmental impacts:

- 1. A drill pad 150' wide x 225' long and a reserve pit 20' x 175' would be constructed. Approximately 1.9 miles of new access road, averaging 18' in width, would be constructed from a maintained road. Four and forty-five hundredths (4.45) acres of disturbed surface would be associated with the project.
- 2. Drilling
- 3. Waste disposal

- 4. Traffic
- 5. Water requirements
- 6. Completion
- 7. Production
- 8. Transportation of hydrocarbons
- 9. Other

Details of the proposed action are described in the Application for Permit to Drill.

The location was moved 25' to the southeast to avoid placing the reserve pit in a steeply-pitching, northwest-trending drainage and to improve the chances for a fluid-tight pit.

The access road was changed per the attached map to reduce environmental impacts and to reduce the number of drainage crossings.

#### Environmental Considerations of the Proposed Action:

Regional Setting/Topography

The wellsite lies on a narrow ridge composed of outcrops of Mesa Verde sandstone and eroded soils. The ridge is part of the higher elevations of the Book Cliffs Range.

#### **PARAMETER**

A. Geology - Surface geology is Mesa Verde sandstone. Other formations listed in the 10-Point Subsurface Plan.

Information Source: APD.

1. Other Local Mineral Resources to be Protected: Coal in Mesa Verde in thin, lenticular beds. Probably subeconomic.

Information Source: District Geologist, ME.

#### 2. Hazards:

a. <u>Land Stability</u>: Surface material should be stable, provided it is properly compacted prior to drilling activities.

Information Source: Dallas Galley and field observation.

b. <u>Subsidence</u>: Subsidence can occur with the withdrawal of oil, gas, and/or water.

Information Source: "Environmental Geology," Edward Keller.

c. <u>Seismicity</u>: Seismic risk: low. Statistically, greatest damage would be moderate, corresponding to intensity VII of Modified Mercalli Intensity Scale, 1931.

Information Source: David M. Perkins, USGS.

d. <u>High Pressure Zones/Blowout Prevention</u>: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: APD.

#### B. Soils

1. <u>Soil Character</u>: No detailed soil surveys done in area. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted. Soils are considered nitrogen-poor, alkalic soils that support the salt-desert community.

Information Source: Field observation.

2. <u>Erosion/Sedimentation</u>: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without sitespecific studies being done.

Information Source: Field observation.

C. - Air Quality - Wellsite lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: Bureau of Land Management.

D. Noise Levels - Ambient noise levels temporarily elevated. Personnel safety could be jeopardized. Wildlife would avoid area.

Information Source: Field observation.

#### E. Water Resources

#### 1. <u>Hydrologic Character</u>

a. <u>Surface Waters</u>: Several small, intermittent drainages would be leveled and filled. The head of the main westward-trending drainage would be the location for the reserve pit, increasing the siltation, erosion, and pollution potential.

Information Source: Field observation.

b. <u>Groundwaters</u>: Contamination to groundwaters through commingling with drilling fluids is possible.

Information Source:

#### 2. Water Quality

a. Surface Waters: Not applicable.

Information Source: Field observation.

b. <u>Groundwaters</u>: Operator proposes <u>250</u> of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be lined. Fresh water is possible throughout the Mesa Verde. All fresh water aquifers are to be protected.

Information Source: District Geologist, ME.

#### F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the Bureau of Land Management on March 21, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Construction would remove about 4.45 acres of vegetation increasing potential for non-point erosion and decreasing soil fertility.

Information Source: Field observation.

3. <u>Fauna</u>: Vegetation removal reduces wildlife habitats and food sources. Deer are not known to winter in the area. No known migratory bird nesting areas, strutting or breeding grounds, or fish-spawning areas would be impacted by proposed action.

Information Source: Bureau of Land Management and field observation.

#### G. Land Uses

1. <u>General</u>: Oil and gas operations, recreation, and grazing are major land uses. Amount and quality of land available to livestock, wildlife, and recreationists would be reduced during well life.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: Not applicable.

Information Source: Field observation.

H. <u>Aesthetics</u>: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

I. <u>Socioeconomics</u>: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Doyle, Environmental Scientist.

J. <u>Cultural Resources Determination</u>: Based on the formal comments received from the Bureau of Land Management on March 21, 1980, we determine that there would be no effect on cultural resources subject to the Bureau of Land Management archeologic monitoring plan. (See BLM stipulation #12.c.)

Information Source: Bureau of Land Management - Moab.

K. Other: None

L. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: David Oberwager, USGS-AOSO.

#### Alternatives to the Proposed Action:

- 1. Disapproving the proposed action or no action If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
- 2. Approving the project with the recommended stipulations Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

#### Adverse Environmental Effects:

- 1. If approved as proposed:
  - a. About 4.45 acres of vegetation would be removed, increasing and accelerating erosion potential.
  - b. Pollution of groundwater systems would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
  - c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

- d. The potential for fires, leaks, spills of gas and oil or water exists.
- c. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to East Canyon would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

#### i. Other:

- 1) The original reserve pit location would require that it be built mostly in fill, near a steep watershed slope, and in a major drainage to the west.
- 2) Fractured rock outcrops in area of reserve pit would likely cause fluid loss.
- 3) Southeast and northeast corners dangerously close to cliff edges and rehabilitation would be impossible at these corners.
- 4) Road crosses main channel twice in first one-half mile. Surface disturbance would cause unnecessary acceleration of erosion/sedimentation potential.

#### 2. Conditional approval

- a. All adverse impacts described in section one, above, would occur, except  $\bot \ \, \text{the SE}$ 
  - 1) The location would be moved and narrowed about 25' to place the reserve pit at least one-half in cut. This would reduce chances of spills.
  - 2) Reserve pit would be lined with bentonite to improve pit integrity in the fractured sandstone. Trees placed in drainage for pit stabilization.

- 3) For safety and rehabilitation reasons, the southeast corner will be rounded and moved 15' inward from the corner stake. The northeast corner will be moved 10' inward from the corner stake.
- 4) Rerouting the road will eliminate crossing the main channel twice.

#### Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

- 1. See attached Lease Stipulations.
- See attached BLM Stipulations.
- 3. Location will be moved 25' to the southeast.
- 4. Reserve pit will be lined with 2-3 inches of wetted bentonite gel. Operator responsible for insuring a fluid-tight reserve pit.
- 5. Six inches of topsoil will be stockpiled on northeast corner of the location.
- 6. Trees will be cut and stockpiled in drainage to the west on the downhill side of reserve pit.
- 7. Southeast corner of pad rounded, moved inward 15'. Northeast corner of pad rounded, moved inward 10'. (See revised rig layout.)
- Road rerouted (See map I).

#### Controversial Issues and Conservation Division Response:

None known.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

#### Determination

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the guality of the human environment in the sense of NEPA, Section 102(2)(C).

District Engineer

U. S. Geological Survey Conservation Division Oil & Gas Operations

Salt Lake City District

Date



TXO ARCO FED. "G"#1 Jec. 19,
168,25E, GRAND CO., UTAH
VIEW SSW



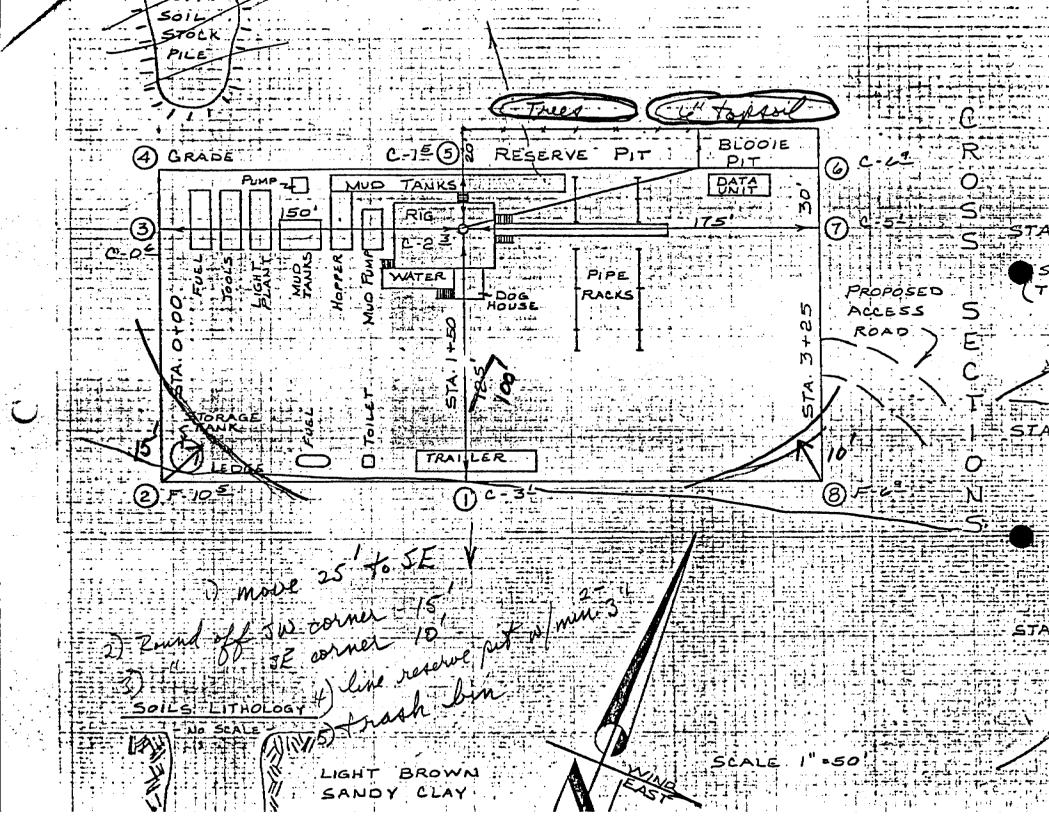
TXO AREO FED. "A" # 1 Jec. 19, 165, 25E, GRAND CO., UTAH PROPOSED RESERVE PIT - 90% IN FILL



TXO ARCO FED. "G" #1 Sec. 19, 165, 25E, GRAND CO., UTAH



TWO ARCO FED. "G" #-1, Sec. 19, 163, 25E, GRAND CO., LLTAK REVISED RESERVE PIT-MOVED R5 SE



#### REFERENCES

- 1 BLM-Moab, Book Mountain Unit Resource Analysis
- 2 Keller, Edward A., <u>Environmental Geology</u>, 488 pages, 1976, Charles E. Merrill.
- Utah State Division of Health, Conservation Committee,
  Utah Air Conservation Regulations, Revised February, 1979,
  Bureau of National Affairs, Inc.
- Perkins, David M., <u>Seismic Risk Maps</u>, Reprint-Earthquake Information Bulletin, Nov-Dec 1974, Vol 6, No. 6.
- 5 von Hake, Carl A., Earthquake History of Utah, NOAA.
- BLM-Utah, <u>Final Initial Wilderness Inventory</u>, 50 pp, August 1979, USDI.
- Brown, Merle, <u>Climates of the States</u> <u>Utah</u>, 15 pp, Climatography of the U.S., No. 60-42, Feb. 1960.



#### United States Department of the Interior

3100 (U-603)

BUREAU OF LAND MANAGEMENT

Moab District

Grand Resource Area

P.O. Box M

Moab, Utah 84532

March 21, 1980

Memorandum

To:

Oil & Gas Office, USGS Conservation Division,

P.O. Box 3768

Grand Junction, CO 81501

From:

Area Manager, Grand

Subject:

Texas Oil & Gas Corporation

TXO ARCO Federal "G" #1

Section 19, T. 16 S., R. 25 E. SLM

Grand County, Utah

On March 20, 1980 a representative from this office met with Glen Doyle, USGS, and Scott McGlochlin agent of the Texas Oil and Gas Corp. for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Texas 0il & Gas Corporation.

C. Delano Backus

Enclosures (3)
1-Reclamation Procedures
2-Seed Sources
3-Seed Mixture



#### STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

- 1. Contact this office at least 24 hours prior to beginning construction of access road and pad. A BLM representative will be there when work begins.
- 2. Stockpile the surface six inches of topsoil in a wind-row on the northeast corner of the location. Pinyon and juniper trees on site will be crushed and stacked to west of top soil along north side of site (see location layout).
- 3. The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad. New access road will have and 18 foot travel surface.
- 4. Notify the BLM District Archaeologist if cultural material from subsurface deposits is exposed during the operation.
- 5. The bottom half of the reserve pit will be lined with at least two to three inches of bentonite spread over the surface and raked into the soil.
- 6. A portable trash bin will be used, residue hauled off as needed.
- 7. The "blooey" line will be centered and directed into the pit.
- 8. If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM and USGS publication).
- 9. If production is obtained, all production facilities will be painted "desert tan" or a similar color approved by the Grand Resource Area Manager.
- 10. Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.
- 11. Production facilities and pipeline route are approved on this location under lease rights.
- 12. The following was agreed to at the pre-drill field examination.
  - a. Well location will be moved 25 feet to the southeast. This will allow the reserve pit to be moved 25 feet south so three feet of this five feet deep pit will be in solid cut. Two to three inches of bentonite will be spread over the pit surface and worked into the soil. Exact amount will be determined when the pit is constructed.
  - b. The southeast corner of the location will be rounded and moved back from the corner stake by 15 feet. The northeast location corner will be rounded and moved back from the corner stake by 10 feet. The pad width will be reduced from 175 feet wide to 150 feet wide.

- c. TXO will have a Moab District approved archaeologist on site daily, to monitor the access road construction and site construction. In the event that any cultural items are uncovered during construction, the work will stop immediately. Moab District archaeologist will be consulted and construction will not continue until an analysis of the situation is made. TXO agrees to abide by the results, and the analysis will determine if and when the construction can go on. The consulting archaeologist will be provided at the expense of Texas Oil & Gas Corporation. He will be required to submit a fully documented and written report to BLM at the conclusion of the construction, or during construction if any cultural items are found.
- d. During the rehabilitation period, (refer to #10 B in the multipoint plan) the seed will be drilled into the ground on the site. The pinyon and juniper trees that were pushed off the site will be scattered back over the areas to break up the rectangular site boundary, reduce the erosion impacts from wind and water to enhance seed production.
- e. The first half mile of new access road will be closed if the well is a non-producer. A backhoe will be used to recover all the soil possible from the toe of the road cut. Soils will be replaced onto the road surface to resemble, as near as possible the original surface land slope. Seed, as specified by the BLM, will be hand broadcast over the disturbed slope and hand raked into the soil surface where drilling seed is not possible. The remaining 1.4 miles of new access road can be left open but should contain water bars as set forward in item number three of the reclamation procedures.

#### RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

- 1. Disk or rip pads and access roads.
  - a. Overlap passes in order to insure complete treatment.
- 2. Contour pads and access roads.
  - a. Lay berms into centers.
  - b. Use cut material for fill areas.
  - c. Lay stockpiled surface soil over top of pads and spread evenly.
  - d. On highly crosive soils, it may be more beneficial to grade slopes to reduce steepness.
  - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
- 3. Water bar roads where required by this office.
  - \* 2% Grade 200 ft. intervals 2-4% Grade - 100 ft. intervals 4-5% Grade - 75 ft. intervals 5% Grade - 50 ft. intervals
  - \* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
- Seed roads and pads in the fall (Oct. through mid-Dec.).

#### SEEDING MIXTURE

<u>Grasses</u>	·	1bs/acre
Oryzopsis hymenoides Agropyron intermedium Elymus junceus	Indian rice grass Intermediate wheatgrass Russian wild rye	2 2 2
Forbs		-
Sphaleralcea grossulariaefolia Medicago sativa Hedysarum boreale utahensis Melilotus officinalis	Globemallow Ladak alfalfa Lutah sweetvetch Yellow sweetclover	.5 .5 .5
Shrubs		
Purshia tridentata Cercocarpus ledifolius Atriplex canescens Artemisia tridentata	Antelope bitterbrush Curlleaf mountain mahogany Four-wing saltbush Big sagebrush	1 1 1 

	APD MINERAL EVALUATION REPORT  Texas Oil & Gas Corp.	WELL NO. TXO ARCO Federal "G"
PERATOR:		
CATION:	½ <u>NW</u> ½ <u>NW</u> ½ sec. <u>19</u> , T. <u>16 S</u> , R.	25 E., SET
_	Grand Co. County, Utah	
Strati	graphy:Operator projected tops appear reaso	onable. Tops predicted are as
fo1	lows: Surface- Wasatch	
	1000- Mesaverde	
	2725- Castlegate 2935- Mancos	· ·
	2935- mancos 6410- Dakota	
	6550- Buckhorn sandstone	· •
	6575- Morrison (Brushy B	Basin)
	6950- Salt Wash	
Fresh	Water: Usable water may be encountered in s	sands in the Wasatch and Mesa Verde
. Fresh	Water: Usable water may be encountered in s to 1500'±	sands in the Wasatch and Mesa Verde
Fresh		sands in the Wasatch and Mesa Verde
Fresh		sands in the Wasatch and Mesa Verde
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  •le Minerals:Coal beds may occur in the Mesa	· ·
	to 1500'±  ple Minerals:Coal beds may occur in the Mesa  be thin and discontinuous.	everde. These beds are likely to
. Leasab	to 1500'±  Ple Minerals:Coal beds may occur in the Mesa  be thin and discontinuous.	everde. These beds are likely to
. Leasab	to 1500'±  ple Minerals:Coal beds may occur in the Mesa  be thin and discontinuous.	everde. These beds are likely to
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. Leasab	to 1500'±  Ple Minerals:Coal beds may occur in the Mesa  be thin and discontinuous.	everde. These beds are likely to
. Leasab	to 1500'±  Ple Minerals:Coal beds may occur in the Mesa  be thin and discontinuous.	everde. These beds are likely to

Signature: Date: 03 - 03

REF: USGS Files, Salt Lake City, Utah, USGS Map I-736.

5. Potential Geologic Hazards: None anticipated

6. References and Remarks: Within San Arroyo field KGS

#### 9-331-C ADDENDUM

TXO Arco Federal "G" #1
Section 19-T16S-R25E
Grand County, Utah

- 1. SURFACE FORMATION: Wasatch
- 2. ESTIMATED FORMATION TOPS:

Mesa Verde	1000'
Castlegate	2725'
Mancos	293 <i>5</i> '
Dakota Silt	6345'
Dakota	6410'
Second San Arroyo Sandstone	6450'
Fifth San Arroyo Sandstone	6525'
Buckhorn Sandstone	6550'
Morrison (Brushy Basin Member)	6 <i>575</i> '
Salt Wash Member	6950'
T.D.	7100'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Possible Castlegate Saltwater	272 <i>5</i> '
Expected Gas Zones:	
Fifth San Arroyo Sandstone	652 <i>5</i> '
Buckhorn Sandstone	<i>*</i> 6550'
Salt Wash Member	6950'

- 4. CASING PROGRAM AS PER FORM 9-331-C.
- 5. PRESSURE CONTROL EQUIPMENT:
  - A. After surface casing is set, a double ram type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi, will be installed. Refer to Exhibit 1.
  - B. A control choke, fill and kill lines with minimum working pressure of 2000 psi will be installed.
  - C. A rotating pack-off head will be installed above the blowout preventer to control flow while drilling with air.
  - D. The equipment in A and B will be pressure-tested to 2000 psi before drilling surface pipe cement; and the blowout preventer will be tested for operation daily and during trips.

#### 6. MUD PROGRAM:

O,	_ ,	250'	Spud mud
250'	_	3100'	5% KCL mud
31001	_	7100'	Air or air mist

#### 7. AUXILIARY EQUIPMENT:

- A. A kelly cock will be used.
- B. A float valve will be run in the string above the bit.
- C. A sub, with full opening valve, will be kept on the derrick floor to stab into DP when kelly is not in use.

#### 8. CORING, LOGGING, TESTING PROGRAM:

- A. No coring is anticipated.
- B. GR induction. SNP-FDC-GR with caliper.

#### 9. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gasses such as H2S are expected.
- C. While drilling with gas or air, return fluids will be directed through the blow line to the reserve pit, located 125' from the wellhead. All open fires or ignition sources will be prohibited on location while gas or air drilling. A pilot flame will be maintained at the end of the blow line to ensure burning of return gasses which are combustible.

#### 10. ANTICIPATED STARTING DATE:

Start location April 1, 1980
Spud April 30, 1980
Complete drilling May 10, 1980
Complete, ready for pipeline June 30, 1980

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the unlined drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging.

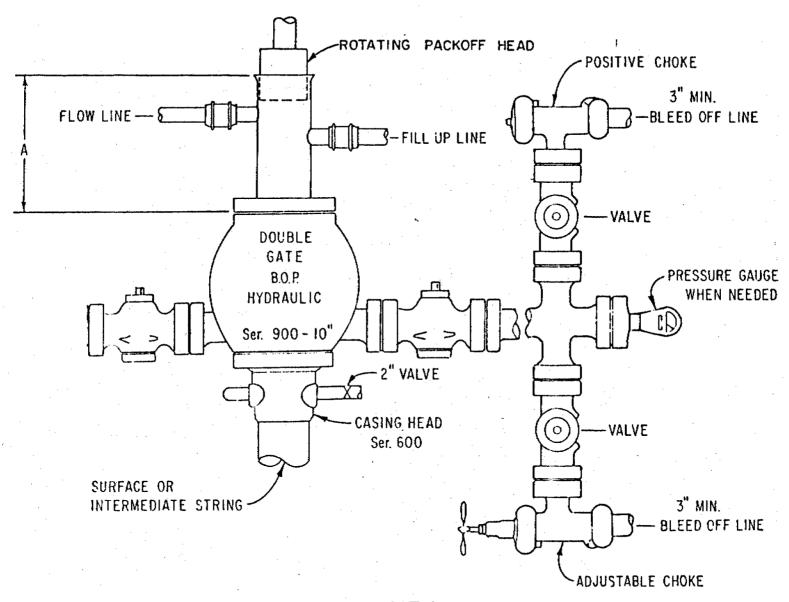


EXHIBIT I
BLOWOUT PREVENTER DIAGRAM

#### \*\* FILE NOTATIONS \*\*

DATE: March 24 1980	
Operator: Texas Oil + Has Cosp.	
Operator: Texas Oil + Has Cosp.  Well No: TXO-ARCO Gederal - "G"	<b>#</b> 1
Location: Sec. <u>19</u> T. <u>165</u> R. <u>25E</u> Cou	
File Prepared: Entered	on N.I.D.:
Card Indexed: Complete	ion Sheet:///
API Number 43-019	1-30644
CHECKED BY:	
Geological Engineer:	
Petroleum Engineer: My Mindu	3/26/80
Director:	
APPROVAL LETTER:	
Bond Required:	Survey Plat Required:
order No. 149-1 3/14/73 No other weekin Sc 19	0.K. Rule C-3
Rule C-3(c), Topographic Exception/compar within a 660' radius of prop	ny owns or controls acreage posed site
Lease Designation Jel	Plotted on Map
Approval Letter Written	
	lita

March 27, 1980

Texas Oll and Gas Corporation 1800 Lincoln Center Building Denver, Colorado 80164

> Re: Well No. TXO-Arco Federal G-#1 Sec. 19, T. 185, R. 25E., Grand County, Utah

Insofar as this office is concerned, approval to daill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 149-1 dated March 14, 1973.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER
Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within \$4 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30624.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder Petroleum Engineer

/b.cm

ea: USGS

6 1/4"

Form approved, Budget Bureau No. 42-R1425.

#### (Other instructions on **UNITED STATES** DEPARTMENT OF THE INTER

**GEOLOGICAL SURVEY** 

- 1	5. LEASE DESIGNATION AND SERIAL NO.
	<u>U-29643</u>
K	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
]	7. UNIT AGREEMENT NAME
	8. FARM OR LEASE NAME
71	TXO ARCO Federal "G"
	9. WELL NO.
	#1
- 3	10. FIELD AND POOL, OR WILDCAT
	San Arroyo
<i></i>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
,	Section 19-T16S-R25E
	12. COUNTY OR PARISE   13. STATE
1	Grand Utah
	F ACRES ASSIGNED

APPLICATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
1a. TYPE OF WORK							
DR	ILL 🖾	DEEPEN [		PLUG	BACK		7. UNIT AGREEMENT NAME
b. TYPE OF WELL							
WELL G	AS X OTHER		SINGLE Zone	x	MULTIPLE ZONE		8. FARM OR LEASE NAME
2. NAME OF OPERATOR		,	· • ·• · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		TXO ARCO Federal "G"
Texas Oil &	9. WELL NO.						
3. ADDRESS OF OPERATOR		#1					
1800 Lincoln	- 12	10. FIELD AND POOL, OR WILDCAT					
4. LOCATION OF WELL (R At surface		San Arroyo					
-1292" FNL, 1	.,	11. SEC., T., R., M., OE BLE. AND SURVEY OR AREA					
At proposed prod. zon		AND SUBTERI OR ASEA					
1304'	·	Section 19-T16S-R25E					
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POST	OFFICE*	<del></del>			12. COUNTY OR PARISH   13. STATE
21.5 miles N	W of Mack, Colo	rado				1	Grand Utah
15. DISTANCE FROM PROPO		1	16. NO. OF A	CRES IN LE	ASE   1		F ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)							320
18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROTAL							LY OR CABLE TOOLS
TO NEAREST WELL, DRILLING, COMPLETED,							Rotary
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	,				45	22. APPROX. DATE WORK WILL START*
		7351' GR					April 1, 1980
23.	F	PROPOSED CASING	G AND CEM	ENTING P	ROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	or s	ETTING DEP	rn	4	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36# K-55	New 250' ce			ement	to surface
8 3/4"	7"	20# V-55	Nove	25001			

into Mancos

State of Utah, Department of Natural ResourCOST 1980 Division of Oil, Gas, and Mining 1588 West North Temple Salt Lake City, Utah 84116

7100'

DIVISION OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PRO	POSED PROGRAM: If proposa	l is to deepen or p	lug back, give data on	present products	ve zone and	proposed n	ew productive
zone. If proposal is to drill	or deepen directionally, giv	e pertinent data o	n subsurface locations	and measured an	d true vertic	al depths.	Give blowout
preventer program, if any.	_				4	*	
24.	f						<del></del>

TITLE Drilling & Production Managerate February 15, 1980

cement 200'

APPROVED BY CONDITIONS OF APPROVAL, IF ANY : FOR

11.6# N-80 New

APPROVAL DATE E. W. GUYNN DISTRICT ENGINEER

MAR 2 7 1980

NOTICE OF APPROVAL

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

Ut State O+G

### DIVISION OF OIL, GAS AND MINING

#### SPUDDING INFORMATION

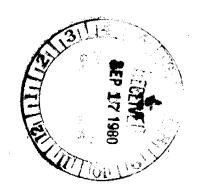
NAME OF COMPANY: Texas Oil and	Gas Corporation
WELL NAME: TXO-ARCO Federal "G" #1	
SECTION 19 NW NW TOWNSHIP 16S	RANGE 25E COUNTY Grand
DRILLING CONTRACTOR	
RIG #	
SPUDDED: DATE 4/18/80	
TIME 4:00 a.m.	
How rotary	
DRILLING WILL COMMENCE ASAP	
REPORTED BY Hugh Harvey	<u>-</u>
TELEPHONE # 303-861-4246	<b></b> -
DATE April 18, 1980	SIGNED Original Signed By M. T. Minder
cc: USGS	

#### TEXAS OIL & GAS CORP.

1800 LINCOLN CENTER BUILDING DENVER. COLORADO 80264

TELEPHONE (303) 861-4246

September 15, 1980



State of Utah
Oil and Gas
Conservation Commission
Department of Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Re: TXO ARCO Federal "G" 1 Section 19-T16S-R25E Grand County, Utah

#### Gentlemen:

Enclosed please find a Sundry Notice to plug and abandon the well referenced above.

Please feel free to contact the undersigned if you have any questions regarding this matter.

Very truly yours,

TEXAS OIL & GAS CORP.

Paul R. Brandt

Engineer

PRB/ck

enclosure

ef

## DEPARTMENT OF NATURAL RESOURCES



(This space for Federal or State office use)	
1114	
SIGNED T. A. Varela TITLE Drlg & Production Man	nager DATE September 15, 19
BY:	
DAT	E:
11. Rehabilitate location per BLM specifications. OL,	GAS, AND MINING
10. Set 5 sxs in rathole and mousehole.  APP	ROVED BY THE DIVISION OF
9. Set a 10 sxs plug at surface with regulation dry hole ma	
8. Set a 40 sxs plug from 330' to 230'.	
7. Set a 90 sxs plug 100' into cutoff 7" to 1100'.	Wind ton
6. Free point & pull 7" casing (guess 1300' recovery).	
5. Set a 20 sxs plug from 3250'-3150'.	
4. Set a 20 sxs plug 50' into cutoff 4½".	Elde .
3. Free point & pull $4\frac{1}{2}$ " casing (guess 4500' recovery).	A SA SA SA SA SA
2. Set a 20 sxs plug from 6675'-6420'.	ALL MARIE
1. Load well with water.	
Texas Oil & Gas Corp. requests approval to plug and abandon t	the subject well as outlined:
DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent of proposed work. If well is directionally drilled give subsurface least one and give pertinent of the proposed work.	completion Report and Low form )
REPAIR WELL CHANGE PLANS (Other) (NOTE: Report re	esults of multiple completion on Well
SHOOT OR ACIDIZE  ABANDON*  X  SHOOTING OR ACIDIZING	ABANDONMENT*
TRET WATER SHUT-OFF FULL OR ALTER CASING WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	REPAIRING WELL
<u></u>	BEBQUENT REPORT OF:
<ol> <li>Check Appropriate Box To Indicate Nature of Notice, Report,</li> </ol>	or Other Data
7351'	Grand Utah
4. PERMIT MO. 15. BLEVATIONS (Show whether DF, RT, GR, etc.)	Section 19-T16S-R25E  12. COUNTY OR PARISH   18. STATE
	O
1304' FNL, 1199' FWL	San Arroyo 11. SEC. T. S., M., OR BLE. AND
Bee also space 17 below.)  At surface	10. FIRLD AND POOL, OR WILDCAT
1800 Lincoln Center Building, Denver, CO 80264	1
Texas Oil & Gas Corp.	TXO ARCO Federal "G"
R. NAME OF OPERATOR	8. FARN OR LEASE NAME
OIL GAS OTHER Dry Hole	7. UNIT AGREEMBNY NAMB
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)	_
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTER OR TRIBE NAME
DIVISION OF OIL, GAS, AND MINING	5. LEASE DESIGNATION AND SERIAL NO. U-29643
DIVISION OF OIL GAN AND MINIME	I D. LEASE DESIGNATION AND SPATTS WA

## TEXAS OIL & GAS CORP. 1800 LINCOLN CENTER BUILDING DENVER. COLORADO 80264

September 29, 1980

TELEPHONE (303) 861-4246

SEP 3 1220

DIVISION OF OIL, GAS & MINING

State of Utah Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

> Re: TXO ARCO Federal G #1 Section 19-T16S-R25E Grand County, Utah

#### Gentlemen:

Enclosed please find a completion report and sundry notice for the above-captioned well which was plugged and abandoned September 23, 1980.

Please contact the undersigned if you should have any questions regarding this matter.

Very truly yours,

TEXAS OIL & GAS CORP.

Paul R. Brandt

Engineer

PRB/ck

enclosures

### FILE IN TRIPLICATE FORM OGC-8-X

NOTE:

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

#### \*\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*\*

Operato	n Texas 0il	& Gas Corp.	Address 18	300 Lincoln Cent	er, Denver, CO 8020
Contrac	tor Calvert	Western Explo	90 rationCo <b>Address</b> Fo	2 Fort Worth Cl ort Worth, Texas	ub Building 76102
Locatio	n ne 4 nw	_% Sec	19 <b>T.</b> 16S	<b>R.</b> 25E	County Grand
Water S	ands				
	<u>Depth</u>		Volume		Quality
	From To	F	low Rate or Head	Fre	sh or Salty
1	1200'		Mist		Salty
2	2561'		30 врн		Salty
3					
4			·		
5					
		(Contin	ue on reverse sid	de <b>if</b> necessary	)
Formati	on Tops	.3			• :
Remarks	· DITTTEG MT	th air from 27 system (mud)	'9' to 1200'. Air for rest of hole.	mist from 1200	' to 2561'.

(a) Report on this form as provided for in Rule C-20, General Rules and

Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone,

please forward a copy along with this form.

## DEPARTMENT OF NATURAL RESOURCES



DIVISI	ION OF OIL, GAS, AND M	INING	U-29643
SUNDRY NOT  (Do not use this form for propo	TICES AND REPORTS sals to drill or to deepen or plug ATION FOR PERMIT—" for such	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTTER OR TRIBE NAME
OIL GAS GARAGE OTHER	Dry Hole	, , , , , , , , , , , , , , , , , , ,	7. UNIT AGREEMENT NAME
2, NAME OF OPERATOR			8. FARM OR LEASE NAME
Texas Oil & Gas Corp.			TXO ARCO Federal G
1800 Lincoln Center Blo	dg., Denver, Colorad	0.80264	9. WELL NO.
4. LOCATION OF WELL (Report location c			10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface  1304' FNL, 1199' FWL			East Canyon .  11. abc., T., B., M., OR BLW. AND SURVEY OR ARBA
			Section 19-T16S-R25E
14. PERMIT NO.	15. BLEVATIONS (Show whether p	F, RT, GR, etc.)	12. COUNTY OR PARISH 18. STATE
	7351 GR		Grand Utah
16. Check Ap		Nature of Notice, Report, or O	ther Data
<del></del> 1		opassos.	REPORT OF:
	FULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
<del>-1</del> .	MULTIPLE COMPLETE ABANDON®	FRACTURE TREATMENT SHOUTING OR ACIDIZING	ALTERING CASING ABANDONMENT* X
<b>├</b> ── <b></b>	CHANGE PLANS	(Other)	ABANDONMENT
(Other)		(NOTE: Report results of	of multiple completion on Well tion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is directio nent to this work.) *	RATIONS (Clearly state all pertine mally drilled, give subsurface loca	at dutails and size postinent dates i	
The TXO ARCO Federal G	#1 was plugged and	ahandoned on Sontambor	22 1000 ss fallows.
•		cement dumped on top.	23, 1700 as 10110ws:
	5 plug from 6675'-64	•	
Freepoint, cutoff	and pulled 4700° of	4½" casing.	•
Set 40 sxs Class G	g plug from 4800' to	4600'.	
Set 50 sxs Class G	G plug from 3250' to	2980'.	
Shot and pull 250' able to pull free.	of 7" casing after	shooting at 1200' and	800' without being
Could not get belo	w 250' with tubing.	Pump 160 sxs Class G	cement with no returns.
Set a 9-5/8" plug	at 250'. Set 125 s	ks Class G plug from 25	50' to 2'.
Weld on dry hole m	arker.		
Water is between a	ll plugs.		
18. I hereby certify that the foregoing is	s true and correct		
SIGNED Y. a. Varela		g.& Production Manager	DATE September 29, 198
(This space for Federal or State office	ce use)		
APPROVED BY	TITLE		DATE

June 19, 1981

Texas Oil and Gas Corporation 1800 Lincoln Center Building Denver, Colorado 80264

> Re: TXO ARCO Federal G #1 Sec. 19, T. 16S, R. 25E Grand County, Utah

#### Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 29, 1980, from above referred to well indicates the following electic logs were run: DI-SFL, GR-CNL-FDC. As of todays date this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires hhat a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

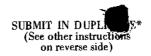
Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Sandy Bates Clerk-Typist

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



4

5. LEASE DESIGNATION AND SERIAL NO.

WELL X. O  2. NAME OF OPERATOR TEXAS OIL &  3. ADDRESS OF OPERAT  1800 Lincoln  4. LOCATION OF WELL At surface  130 At top prod. interval  At total depth	Center I. (Report location)  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	GAS WEI  FALTE  GAS WEI  GAS W	Den in according to the party of the TVD	DRY X  DIFF. RESVR.   Ver, Colordance with any  14. PERMIT NO. 43-019- MPL. (Ready to - 7-23  122. IF MULT HOW MA	Other	DATE   3-18. ELEV	issued 27-80 ATIONS (DE	', RKB, 1	7. UNIT AGR.  S. FARM OR  TXO ARC  9. WELL NO.  1  10. FIELD AR  Easst C  11. SEC., T., OR AREA	LEASE OF POOL REPORT OF 19	deral G  or Wildcat  con  be block and survey  -T16S-R25E  13. state  Utah  Lev. Casinghead
b. TYPE OF COMPL  NEW X V  2. NAME OF OPERATOR  Texas Oil &  3. ADDRESS OF OPERAT  1800 Lincoln  4. LOCATION OF WELL  At surface  130  At top prod. interval  total depth  5. DATE SPUDDED  4-18-80  0. TOTAL DEPTH, MD a  6904  None  6. TYPE ELECTRIC AND  DI-SFL, GR-C	Gas Corp.  Gas Corp.  Gas Corp.  Center I.  (Report location)  Yell FNL, 1  Yeal reported be  16. DATE T.D. R  5-7-80  TVD 21. PLU  SUI  AL(S), OF THIS	Building, on clearly and l199' FWI low FACHED 17.	Denrin accord	ver, Colordance with any NW  14. PERMIT NO. 43-019- MPL. (Ready to - 7-23 122. IF MULT HOW MA	orado (sy State re	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		S. FARM OR TXO ARC 9. WELL NO. 1 10. FIBLD AR East ( 11. SEC., T., OR AREA Section 12. COUNTY PARISH Grand	CO Fe	deral G  or Wildcat  con  be block and survey  -T16S-R25E  13. state  Utah  Lev. Casinghead
NEW WELL X ON WELL X ON X	Gas Corp.  Gas Corp.  TOR  Center I.  (Report location)  Yell FNL, 1  TVal reported be  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	Back T.D., M	Dentin according to the party of the party o	Ver, Colordance with any NW  14. PERMIT NO. 43-019- MPL. (Ready to - 7-23 122. IF MULT HOW MA	vado (vado (vado vado vado vado vado vado vado vado	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		TXO ARC  9. WELL NO.  1  10. FIELD AR  Easst C  11. SEC., T., OR AREA  Section  12. COUNTY PARISH Grand	O Fe	deral G  OR WILDCAT  FON  H BLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
WELL X. O  2. NAME OF OPERATOR TEXAS OIL &  3. ADDRESS OF OPERAT  1800 Lincoln  4. LOCATION OF WELL At surface  130 At top prod. interval At total depth  5. DATE SPUDDED 4-18-80  10. TOTAL DEPTH, MD at 6904  4. PRODUCING INTERVAL NONE  6. TYPE ELECTRIC AND DI-SFL, GR-C	Gas Corporation  Center I  (Report location  14' FNL, I  val reported be  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	Back T.D., M	Dentin according to the party of the party o	Ver, Colordance with any NW  14. PERMIT NO. 43-019- MPL. (Ready to - 7-23 122. IF MULT HOW MA	vado (vado (vado vado vado vado vado vado vado vado	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		TXO ARC  9. WELL NO.  1  10. FIELD AR  Easst C  11. SEC., T., OR AREA  Section  12. COUNTY PARISH Grand	O Fe	deral G  OR WILDCAT  FON  H BLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
Texas Oil & 3. ADDRESS OF OPERAT 1800 Lincoln 4. LOCATION OF WELL At surface 130 At top prod. interval At total depth  5. DATE SPUDDED 4-18-80 0. TOTAL DEPTH, MD at 6904 4. PRODUCING INTERVAL NOTE 6. TYPE ELECTRIC AND DI-SFL, GR-C	Gas Corp.  TOR  1 Center I  (Report location  14' FNL, 1  val reported be  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	Building, on clearly and L199' FWI low FACHED 17.	IN according to the second sec	Ver, Colordance with any NW  14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- HOW MA	30624 o prod.) -SO TIPLE COM	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		9. WELL NO.  1 10. FIELD AN East ( 11. SEC. T., OR AREA Section 12. COUNTY PARISH Grand	or 19	OR WILDCAT ON BEBLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
3. ADDRESS OF OPERATE 1800 Lincoln 4. LOCATION OF WELL At surface 130 At top prod. interval At total depth 5. DATE SPUDDED 4-18-80 0. TOTAL DEPTH, MD 4: 6904 4. PRODUCING INTERVAL NONE 6. TYPE ELECTRIC AND DI-SFL, GR-C	TOR  1 Center I  (Report location )4' FNL,  14' FNL,  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	Building, on clearly and L199' FWI low FACHED 17.	IN according to the second sec	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 122. IF MULT HOW MA	30624 o prod.) -SO TIPLE COM	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		1 10. FIBLD AF East ( 11. SEC., T., OR AREA Section 12. COUNTY PARISH Grand	E POOL E., M., o	TON  R BLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
1800 Lincoln Location of well At surface 130 At top prod. interval total depth  Location of well At surface 130 At top prod. interval total depth  Location of well At surface 130 At top prod. interval total depth  Location of the surface None  Location of the surface None Location of the surface Butter of the surface Location of the surface Street of the surface Location of the surface L	TOR  1 Center I  (Report location )4' FNL,  14' FNL,  16. DATE T.D. R  5-7-80  TVD 21. PLU  AL(S), OF THIS	Building, on clearly and L199' FWI low FACHED 17.	IN according to the second sec	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 122. IF MULT HOW MA	30624 o prod.) -SO TIPLE COM	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		10. FIELD AF  East C  11. SEC., T., OR AREA  Section  12. COUNTY PARISH Grand	<b>Евую</b> , в., м., о	TON  R BLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
At surface  130 At top prod. interval  130 At total depth  130 At total depth  130 At total depth  130 At total depth  14-18-80  150 ATT SPUDDED  14-18-80  150 ATT SPUDDED  161 APRODUCING INTERVAL  NONE  163 ATTER ELECTRIC AND  DI-SFL, GR-C	(Report location)  (A' FNL, 1  (Val reported be)  16. DATE T.D. R  5-7-80  TVD   21. PLU  SUI  AL(S), OF THIS	on clearly and L199' FWI low  EACHED 17. G. EACK T.D., M rface  COMPLETION—	IN according to the second sec	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 122. IF MULT HOW MA	30624 o prod.) -SO TIPLE COM	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		East C 11. SEC., T., OR AREA Section 12. COUNTY PARISH Grand	<b>Евую</b> , в., м., о	TON  R BLOCK AND SURVEY  -T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
At surface  130 At top prod. interval  130 At total depth  130 At total depth  130 At total depth  130 At total depth  14-18-80  150 ATTAL DEPTH, MD at 16904  160 ATTAL DEPTH, MD at 16904  160 B. TYPE ELECTRIC AND DI-SFL, GR-C	(Report location)  (A' FNL, 1  (Val reported be)  16. DATE T.D. R  5-7-80  TVD   21. PLU  SUI  AL(S), OF THIS	on clearly and L199' FWI low  EACHED 17. G. EACK T.D., M rface  COMPLETION—	IN according to the second sec	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 122. IF MULT HOW MA	30624 o prod.) -SO TIPLE COM	DATE 3- 18. ELEV	18SUED 27-80 ATIONS (DE		11. SEC., T., OR AREA  Section  12. COUNTY PARISH Grand	в., м., о on 19	T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
At top prod. interval.  At total depth  DATE SPUDDED  4-18-80  TOTAL DEPTH, MD a 16904  PRODUCING INTERVAL.  NONE  TYPE ELECTRIC AND DI-SFL, GR-C	16. DATE T.D. R  5-7-80  TVD   21. PLU  SUI  AL(S), OF THIS	EACHED 17.  G. BACK T.D., M  rface  COMPLETION—	DATE CO	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 22. IF MULT HOW M.	-SO TIPLE COM	18. ELEV	27-80 ATIONS (DE		11. SEC., T., OR AREA  Section  12. COUNTY PARISH Grand	в., м., о on 19	T16S-R25E  13. STATE  Utah  LEV. CASINGHEAD
At total depth  i. date spudded 4-18-80  i. total depth, as a second sec	16. DATE T.D. R  5-7-80  TVD   21. PLU  SUI  AL(S), OF THIS	EACHED 17.  G. BACK T.D., M  rface  COMPLETION—	DATE CO	14. PERMIT NO. 43-019- MPL. (Ready to - 7-23- 22. IF MULT HOW M.	-SO TIPLE COM	18. ELEV	27-80 ATIONS (DE		Section 12. COUNTY PARISH Grand	on 19	13. STATE  Utah  LEV. CASINGHEAD
At total depth  5. DATE SPUDDED  4-18-80  5. TOTAL DEPTH, MD a construction of the service of th	16. DATE T.D. R 5-7-80  TVD   21. PLU  SUI  AL(S), OF THIS	G, BACK T.D., M	DATE CO	43-019- OMPL. (Ready to - 7-23   22. IF MULT HOW MA	-SO TIPLE COM	18. ELEV	27-80 ATIONS (DE		12. COUNTY PARISH Grand	OR	13. STATE  Utah  LEV. CASINGHEAD
5. DATE SPUDDED  4-18-80  5. TOTAL DEPTH, MD A  6904  4. PRODUCING INTERVA  NONE  5. TYPE ELECTRIC AND  DI-SFL, GR-C	5-7-80  TVD 21. PLU  SUI  AL(S), OF THIS	G, EACK T.D., M	DATE CO	43-019- OMPL. (Ready to - 7-23   22. IF MULT HOW MA	-SO TIPLE COM	18. ELEV	27-80 ATIONS (DE		Grand		Utah LEV. CASINGHEAD
4-18-80  D. TOTAL DEPTH, MD A 1 6904    D. PRODUCING INTERVA  NONE  DI-SFL, GR-C	5-7-80  TVD 21. PLU  SUI  AL(S), OF THIS	G, EACK T.D., M	DATE CO	43-019- OMPL. (Ready to - 7-23   22. IF MULT HOW MA	-SO TIPLE COM	18. ELEV	27-80 ATIONS (DE		Grand		Utah LEV. CASINGHEAD
4-18-80  TOTAL DEPTH, MD A 1 6904    PRODUCING INTERVA  NONE  TYPE ELECTRIC AND  DI-SFL, GR-C	5-7-80  TVD 21. PLU  SUI  AL(S), OF THIS	G, EACK T.D., M	D & TVD	22. IF MULT HOW MA	-SO TIPLE COM	18. ELEV	ATIONS (DE		Grand	19. E	LEV. CASINGHEAD
4-18-80  D. TOTAL DEPTH, MD A 1 6904    D. PRODUCING INTERVA  NONE  DI-SFL, GR-C	5-7-80  TVD 21. PLU  SUI  AL(S), OF THIS	G, EACK T.D., M	D & TVD	22. IF MULT	-80	73	51' GR		RT, GR, ETC.)*	19. E	_
0. TOTAL DEPTH, MD A 1 6904 1 1	Sulation of this	rface	D & TVD	22. IF MULT HOW MA	TIPLE CON ANY*						
0. TOTAL DEPTH, MD A 1 6904 1 1	Sulation of this	rface	D & TVD	22. IF MULT HOW MA	TIPLE CON ANY*			- 1-1 1 -		<u>.                                      </u>	
None None Type electric and DI-SFL, GR-C	AL(S), OF THIS	COMPLETION-	-тор, во	1	·		23. INTE	RVALS LED BY	ROTARY TOO	LS	CABLE TOOLS
None None Type electric and DI-SFL, GR-C	AL(S), OF THIS	COMPLETION-	-тор, во	TTOM, NAME (M	ID AND FO			<u>- 1 -                                 </u>	0-6904		
3. TYPE ELECTRIC AND DI-SFL, GR-C		RÜN			TO WELL IN	7D)*				25.	WAS DIRECTIONAL SURVEY MADE
3. TYPE ELECTRIC AND DI-SFL, GR-C		RUN								,	
DI-SFL, GR-C		RUN									Yes
	CNL-FDC									27. W	AS WELL CORED
										N	0
		•	ASING	RECORD (Repe	ort all str	ings set i	n soell)	,			
CASING SIZE	WEIGHT, LB./	FT. DEPT	I SET (1	MD) HOI	LE SIZE		CEMI	ENTING	RECORD		AMOUNT PULLED
9-5/8"	36# K-55	2	79 <b>'</b>	12½"	ı		200 sx	S			
7''	20# K-55 3149' 8-3/4" 225 sxs							250'			
412"	11.6# N-8			614"			250 sx	s			4700'
),		LINER RECO	ORD				30.	,	TUBING REC	ORD	
SIZE	TOP (MD)	BOTTOM (ME	) SAC	CKS CEMENT*	SCREEN	(MD)	SIZE		DEPTH SET (M	(D)	PACKER SET (MD)
					-		_	_ _			
		_					·				
. PERFORATION RECOR				11 1-1.	82.	AC	ID, SHOT,	FRACT	URE, CEMEN	r sque	EEZE, ETC.
6688'-6697'		00026	0014,	ii uoies	DEPTH	INTERVAL	(MD)	AM	OUNT AND KIN	D OF M	ATERIAL USED
6629'-6633'	5 holes				6688	6688'-6697' 250 gal 10% acc					ic acid
6538'-6545' 8 holes							-6633' 1000 gal 3% KCl water			ater	
6/1/10'-6/1/6' / h0100											
0000 - TRC0	ZU notes										
3.*					DUCTION						
ATE FIRST PRODUCTION	N PROD	UCTION METHO	D (Flow	ing, gas lift, pu	umping—1	rize and t	ype of pum	p)		STATUS t-in)	(Producing or
			Elowi						Plug	ged	& Abandoned
ATE OF TEST	HOURS TESTED	CHOKE 8		PROD'N. FOR TEST PERIOD	OIL—BÉ	SL.	GASMCI	r.	WATER—BBI	.	GAS-OIL BATIO
7-31 <b>-</b> 80	<del>-</del>			<del>`</del>			TSTM				<u> </u>
OW, TUBING PRESS.	CASING PRESSUI	RE CALCULATE 24-HOUR		OIL-BBL.	G A	s—MCF.		WATER-	-BBL.	OIL GR	AVITY-API (CORE.)
	_	_	<b>→</b>		T	STM					<u> </u>
DISPOSITION OF GAS	8 (Sold, used for	fuel, vented,	etc.)				<del></del>		TEST WITNE	SED BY	!
· <u>-</u>									<u> </u>		
5. LIST OF ATTACHME	ENTS										
None											
6. I hereby certify th	hat the foregoin	ng and attach	ed inform	mation is comp	lete and	correct as	determine	d from	all available i	ecords	17
SIGNED X.A.	Unach	1		TITLE D	rlg.&	Produ	ction	Mana	ger	Sep	tember 29,

# NSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

In ordinary see this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

Hems 12 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hem 29: "Socks Cemest": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

		<u> </u>					,	- 1 <u>-</u>					
	<b>.</b>	TRUB VERT. DEPTH			···				· · · · · · · · · · · · · · · · · · ·	-			
GEOLOGIC MARKERS	TOP	MEAS, DEPTH	2480	2785	63821	6454	59801	,1099					
38. GEOLOGIC			Back Tongue	Castle Gate	Dakota Silt	Dakota	Buckhorn	Morrison			***************************************	•	
NTS THEEROF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING OPEN, PLOWING AND BHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		18 second flare	10 second flare	Guaged 1-3 MMCFD. Depleted with								
OSITY AND CONTE	BOTTOM												
MARY OF POROUS ZONES: show all important zones of porosity and contents therrof; depth interval tested, cushion used, time tool open, plowing	TOP		9859	65241	67601						-		
37, SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES O DEPTH INTERVAL TESTED, CUSH	PORMATION		Buckhorn	Buckhorn	Morrison								

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Form 9-331 Dec. 1973

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Form Approved. Budget Bureau No. 42-R1424

HAUTER CTATEC	Budget Bulleau NO. 42-K1424
UNITED STATES	5. LEASE U-29643
DEPARTMENT OF THE INTERIOR	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	7. UNIT AGREEMENT NAME
reservoir, Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME ARCO Federal "G"
well well KX other	9. WELL NO. #1.
2. NAME OF OPERATOR	10. FIELD OR WILDCAT NAME
TXO Production Corp.  3. ADDRESS OF OPERATOR	San Arroyo
1800 Lincoln Center Building, Denver, CO 80264	11. SEC., T., R., M., OR BLK. AND SURVEY OF
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Sec. 19-T16S-R25E
below.) 1292' FNT., 1177' FWT.	
AT SURFACE: Sec. 19-T16S-R25E AT TOP PROD. INTERVAL: same	12. COUNTY OR PARISH 13. STATE Utah
AT TOTAL DEPTH: same	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	7351 GR
TEST WATER SHUT-OFF	
FRACTURE TREAT	•
SHOOT OR ACIDIZE	
REPAIR WELL	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
MULTIPLE COMPLETE	The same of the sa
CHANGE ZONES	
ABANDON*	
(biller) Operator lique citalique	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent	irectionally drilled, give subsurface locations and
Effective September 1, 1981, the exploration	and production activities
of Texas Oil & Gas Corp. have been reorganize	
TXO Production Corp. As a consequence, the o	perator name for this well
is changed to "TXO Production Corp.", as indi	cated above in Item 2.
•.	
	·
Subsurface Safety Valve: Manu. and Type	Set @ Ft
18. I hereby certify that the foregoing is true and correct	, ,
Charles Charles	7dm aver 9/14/8/
Charles K. Curlee	DEBIL DATE
(This space for Federal or State off	ice use)
APPROVED BY TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:	